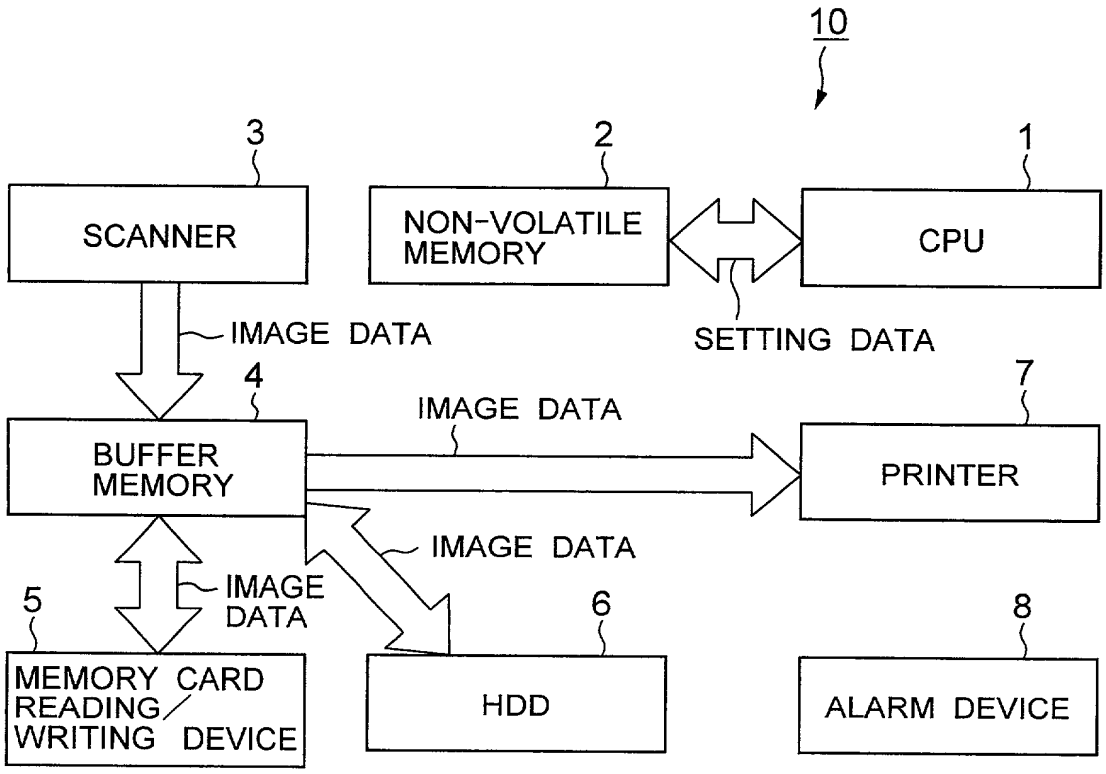
10
3
2
1
SCANNER
NON-VOLATILE MEMORY
CPU
IMAGE DATA
SETTING DATA
4
7
IMAGE DATA
BUFFER MEMORY
PRINTER
IMAGE DATA
5
IMAGE DATA
6
8
MEMORY CARD READING/WRITING DEVICE
HDD
ALARM DEVICE

FIG. 1

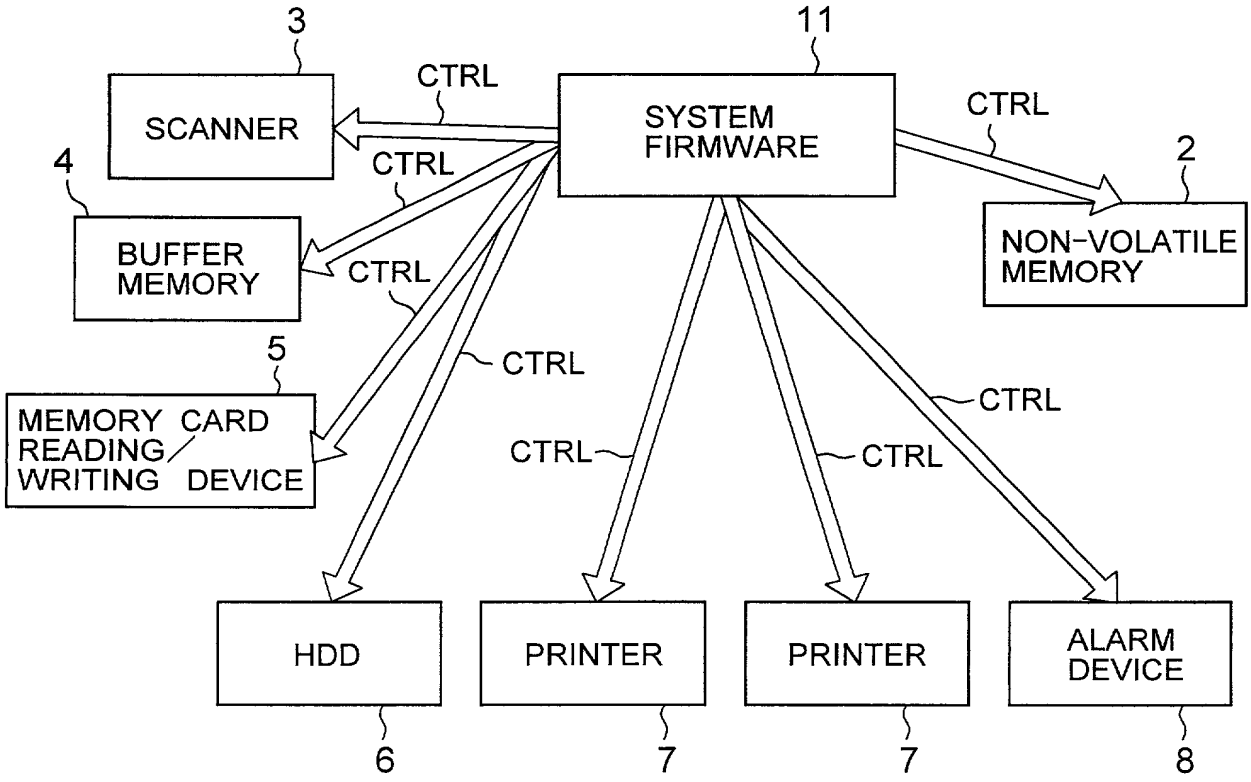
3
11
SCANNER
CTRL
SYSTEM
FIRMWARE
CTRL
2
4
CTRL
BUFFER
MEMORY
NON-VOLATILE
MEMORY
CTRL
5
CTRL
CTRL
MEMORY CARD
READING/
WRITING DEVICE
CTRL
CTRL
HDD
PRINTER
PRINTER
ALARM
DEVICE
6
7
7
8

FIG. 2

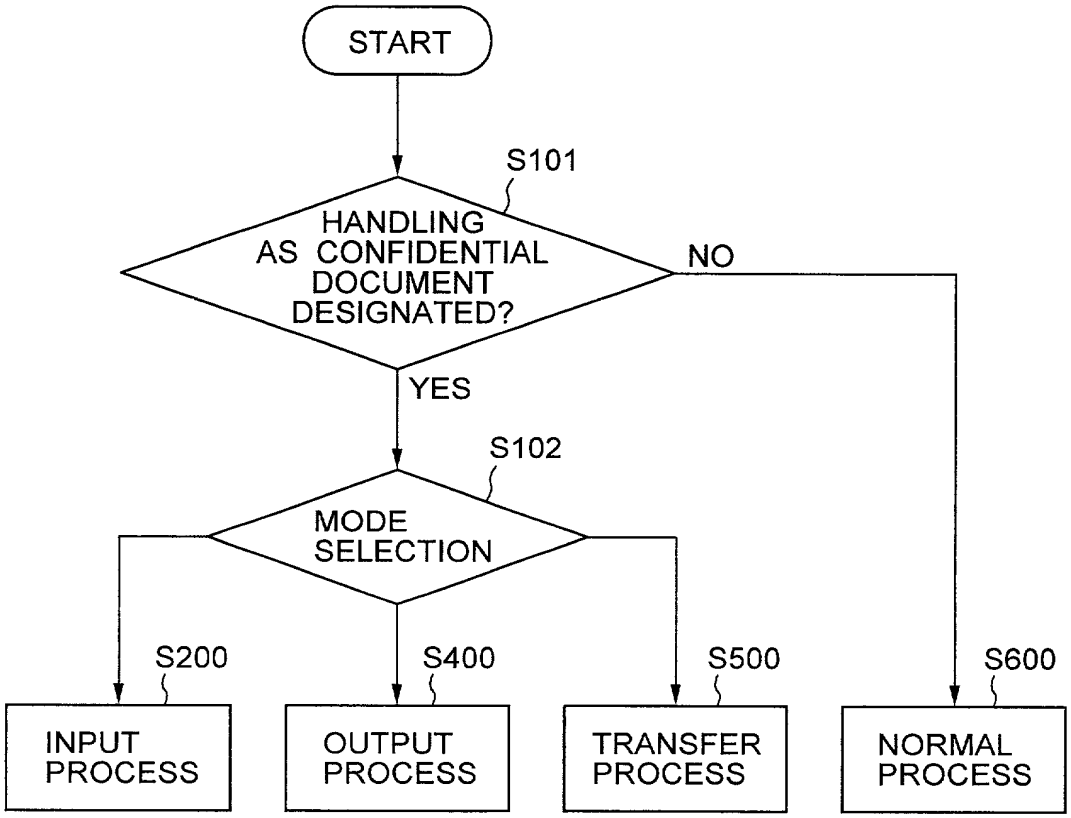
START
S101
HANDLING AS CONFIDENTIAL DOCUMENT DESIGNATED?
NO
YES
S102
MODE SELECTION
S200
S400
S500
S600
INPUT PROCESS
OUTPUT PROCESS
TRANSFER PROCESS
NORMAL PROCESS

FIG. 3

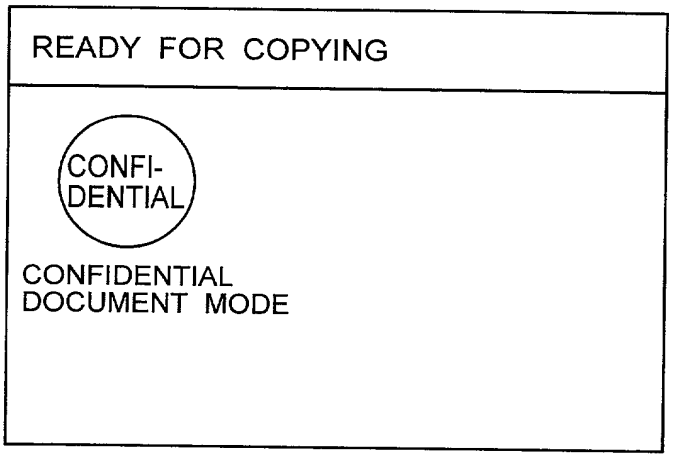
READY FOR COPYING
CONFI-
DENTIAL
CONFIDENTIAL
DOCUMENT MODE

FIG. 4

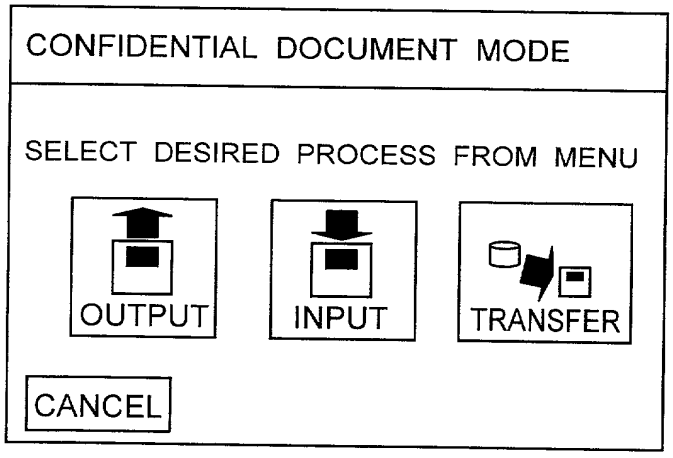
CONFIDENTIAL DOCUMENT MODE
SELECT DESIRED PROCESS FROM MENU
OUTPUT
INPUT
TRANSFER
CANCEL

FIG. 5

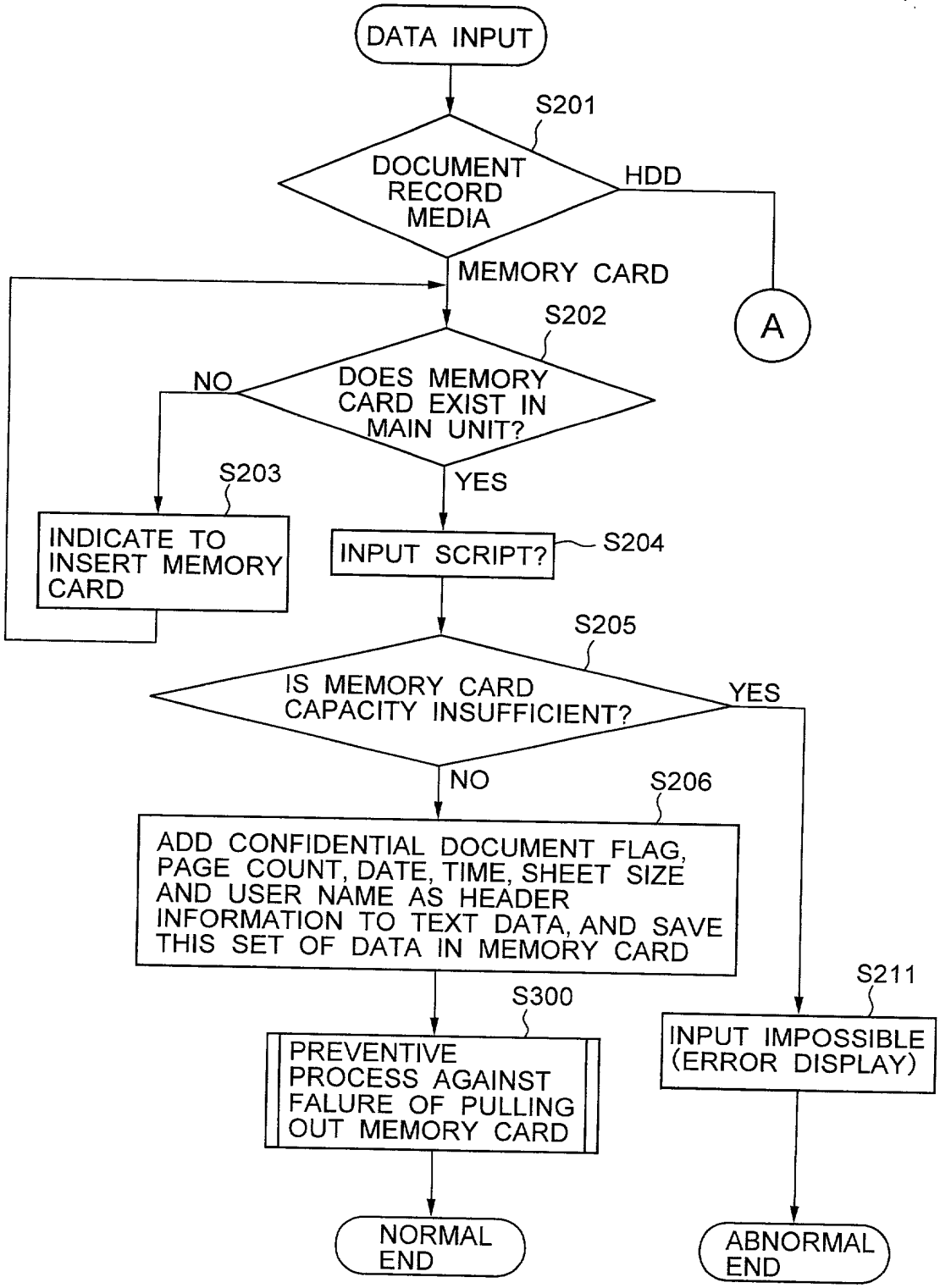
DATA INPUT
S201
DOCUMENT RECORD MEDIA
HDD
MEMORY CARD
A
S202
DOES MEMORY CARD EXIST IN MAIN UNIT?
NO
YES
S203
INDICATE TO INSERT MEMORY CARD
INPUT SCRIPT?
S204
S205
IS MEMORY CARD CAPACITY INSUFFICIENT?
YES
NO
S206
ADD CONFIDENTIAL DOCUMENT FLAG, PAGE COUNT, DATE, TIME, SHEET SIZE AND USER NAME AS HEADER INFORMATION TO TEXT DATA, AND SAVE THIS SET OF DATA IN MEMORY CARD
S300
PREVENTIVE PROCESS AGAINST FALURE OF PULLING OUT MEMORY CARD
S211
INPUT IMPOSSIBLE (ERROR DISPLAY)
NORMAL END
ABNORMAL END

FIG. 6

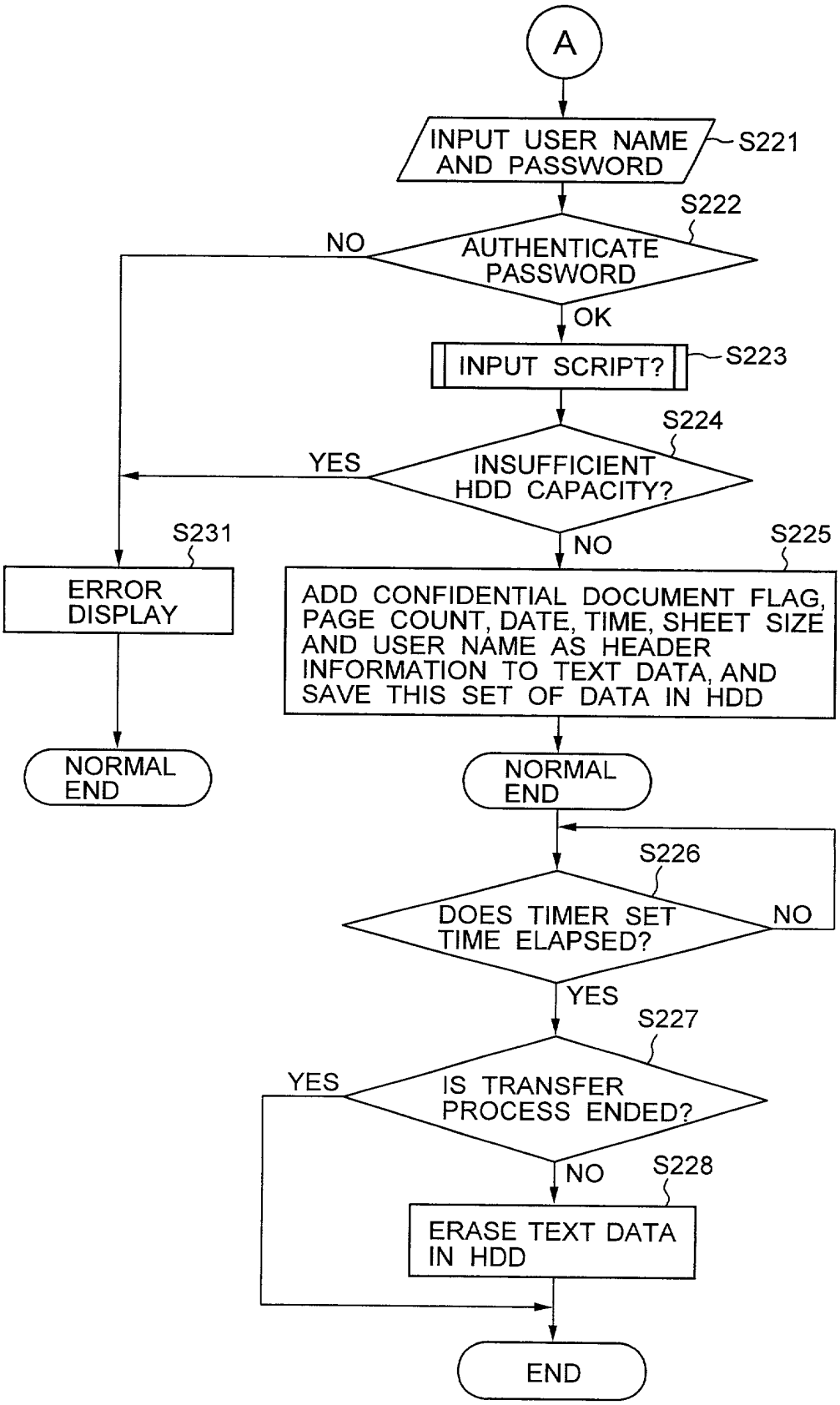
A
INPUT USER NAME AND PASSWORD
S221
S222
AUTHENTICATE PASSWORD
NO
OK
INPUT SCRIPT?
S223
S224
INSUFFICIENT HDD CAPACITY?
YES
NO
S231
ERROR DISPLAY
S225
ADD CONFIDENTIAL DOCUMENT FLAG, PAGE COUNT, DATE, TIME, SHEET SIZE AND USER NAME AS HEADER INFORMATION TO TEXT DATA, AND SAVE THIS SET OF DATA IN HDD
NORMAL END
NORMAL END
S226
DOES TIMER SET TIME ELAPSED?
NO
YES
S227
IS TRANSFER PROCESS ENDED?
YES
NO
S228
ERASE TEXT DATA IN HDD
END

FIG. 7

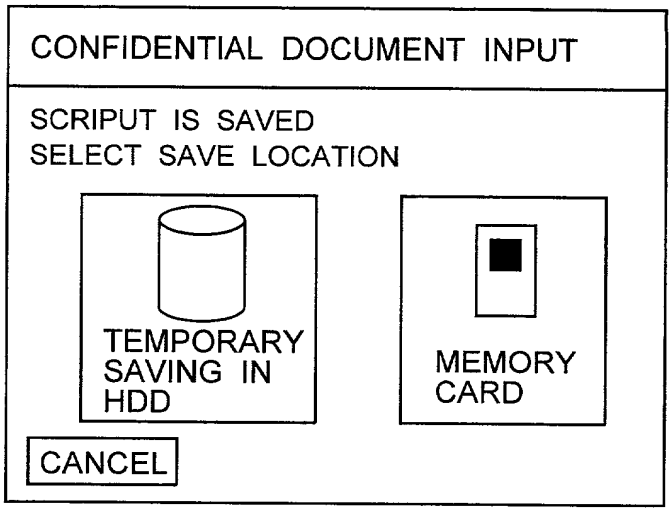

FIG. 8

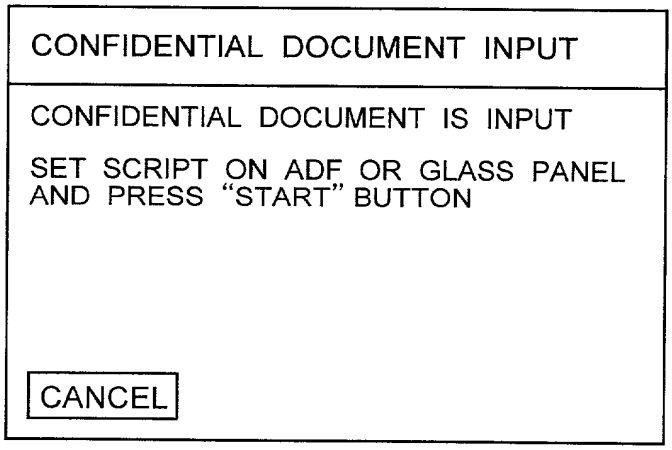

FIG. 9

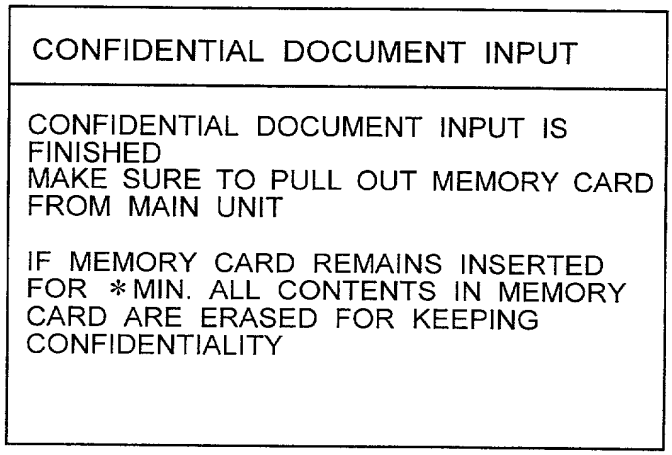

FIG. 10

09811765 - 030104

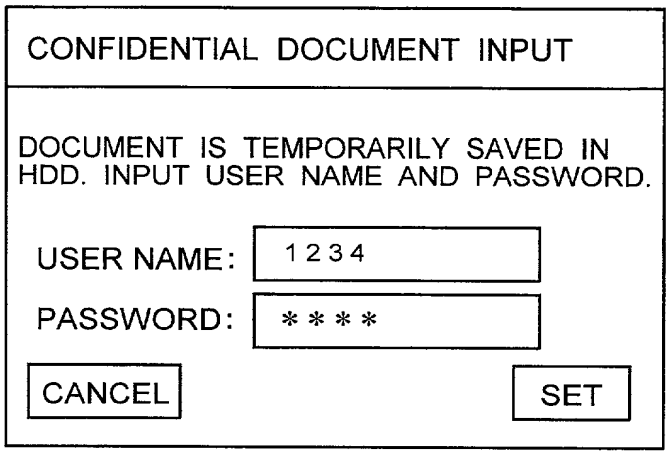
CONFIDENTIAL DOCUMENT INPUT
DOCUMENT IS TEMPORARILY SAVED IN HDD. INPUT USER NAME AND PASSWORD.
USER NAME:
1234
PASSWORD:
* * * *
CANCEL
SET

FIG. 11

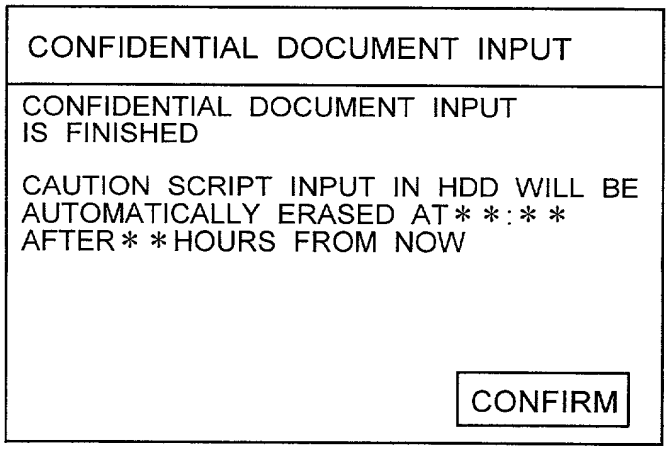
CONFIDENTIAL DOCUMENT INPUT
CONFIDENTIAL DOCUMENT INPUT IS FINISHED
CAUTION SCRIPT INPUT IN HDD WILL BE AUTOMATICALLY ERASED AT* *:* * AFTER* *HOURS FROM NOW
CONFIRM

FIG. 12

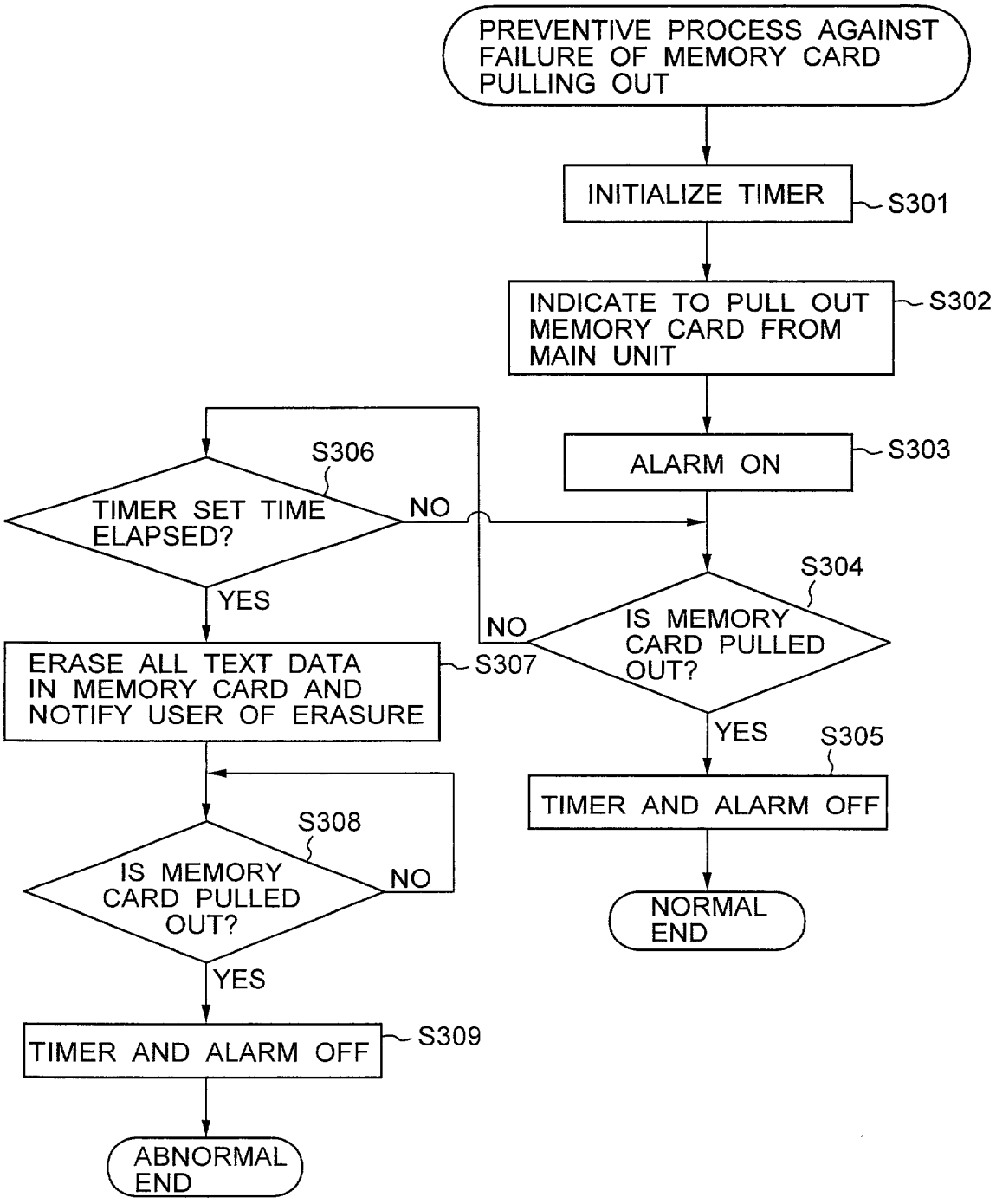
PREVENTIVE PROCESS AGAINST FAILURE OF MEMORY CARD PULLING OUT
INITIALIZE TIMER
S301
INDICATE TO PULL OUT MEMORY CARD FROM MAIN UNIT
S302
ALARM ON
S303
S304
IS MEMORY CARD PULLED OUT?
NO
YES
S305
TIMER AND ALARM OFF
NORMAL END
S306
TIMER SET TIME ELAPSED?
NO
YES
ERASE ALL TEXT DATA IN MEMORY CARD AND NOTIFY USER OF ERASURE
S307
S308
IS MEMORY CARD PULLED OUT?
NO
YES
TIMER AND ALARM OFF
S309
ABNORMAL END

FIG. 13

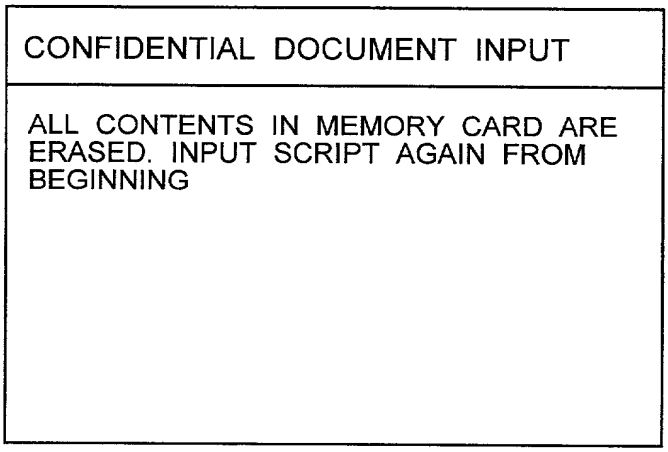

FIG. 14

09/811765 - 032104

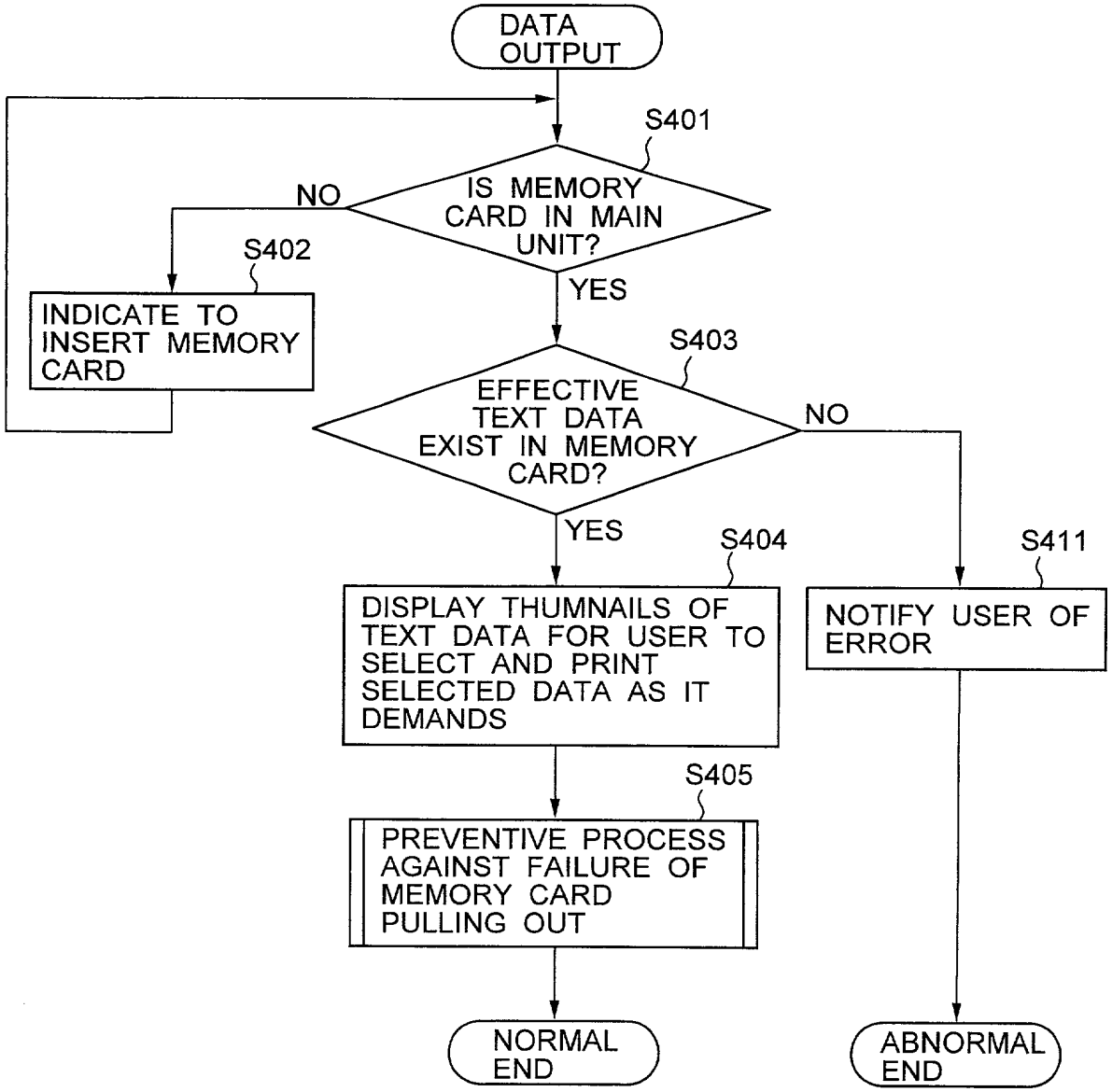
DATA OUTPUT
S401
IS MEMORY CARD IN MAIN UNIT?
NO
YES
S402
INDICATE TO INSERT MEMORY CARD
S403
EFFECTIVE TEXT DATA EXIST IN MEMORY CARD?
NO
YES
S404
DISPLAY THUMNAILS OF TEXT DATA FOR USER TO SELECT AND PRINT SELECTED DATA AS IT DEMANDS
S411
NOTIFY USER OF ERROR
S405
PREVENTIVE PROCESS AGAINST FAILURE OF MEMORY CARD PULLING OUT
NORMAL END
ABNORMAL END

FIG. 15

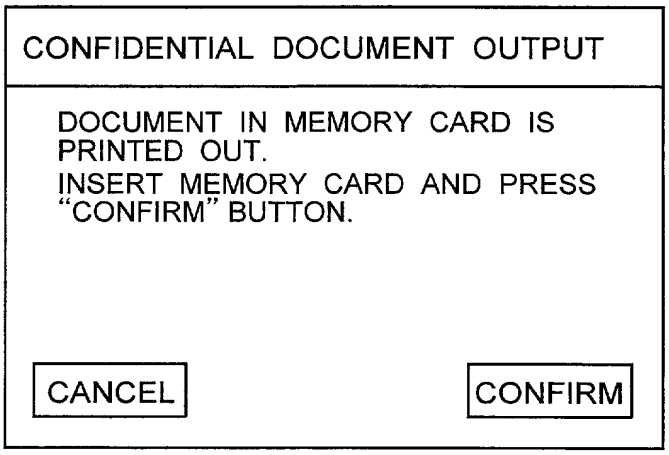

FIG. 16

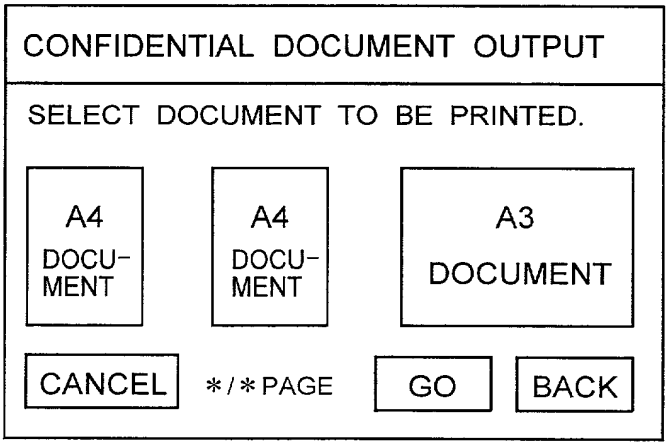

FIG. 17

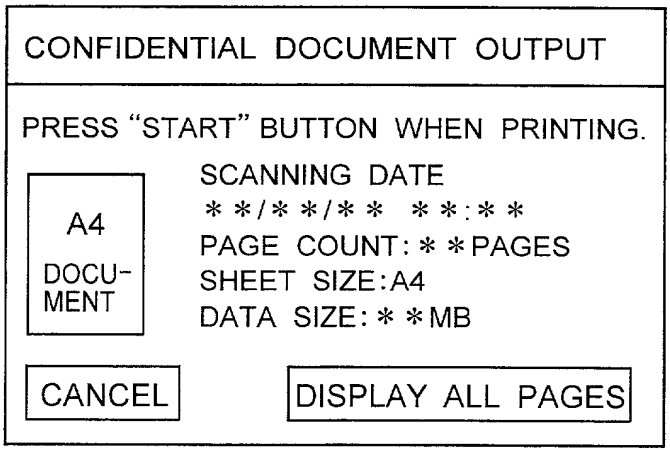

FIG. 18

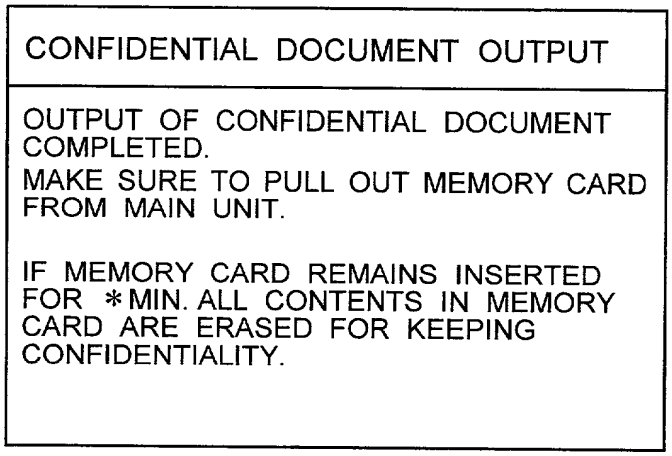
CONFIDENTIAL DOCUMENT OUTPUT
OUTPUT OF CONFIDENTIAL DOCUMENT COMPLETED.
MAKE SURE TO PULL OUT MEMORY CARD FROM MAIN UNIT.
IF MEMORY CARD REMAINS INSERTED FOR *MIN. ALL CONTENTS IN MEMORY CARD ARE ERASED FOR KEEPING CONFIDENTIALITY.

FIG. 19

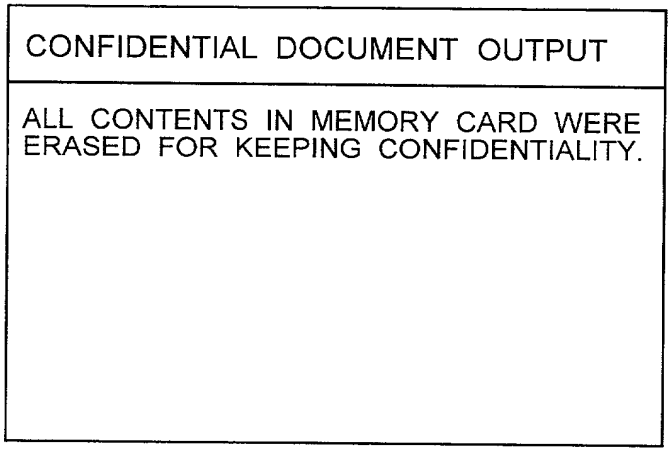
CONFIDENTIAL DOCUMENT OUTPUT
ALL CONTENTS IN MEMORY CARD WERE ERASED FOR KEEPING CONFIDENTIALITY.

FIG. 20

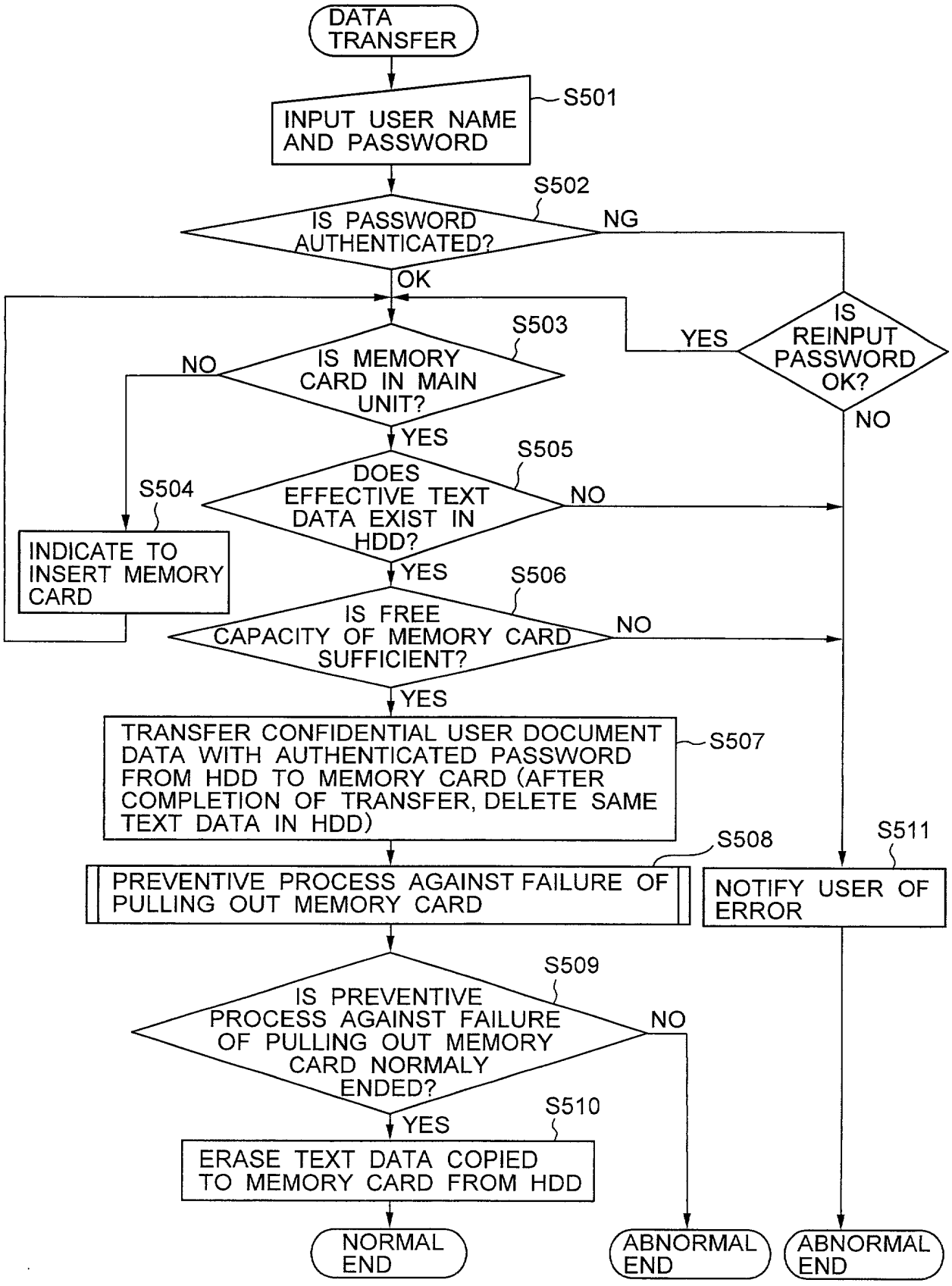
DATA TRANSFER
INPUT USER NAME AND PASSWORD
S501
IS PASSWORD AUTHENTICATED?
S502
NG
OK
IS REINPUT PASSWORD OK?
YES
NO
IS MEMORY CARD IN MAIN UNIT?
S503
NO
YES
DOES EFFECTIVE TEXT DATA EXIST IN HDD?
S505
NO
S504
INDICATE TO INSERT MEMORY CARD
YES
IS FREE CAPACITY OF MEMORY CARD SUFFICIENT?
S506
NO
YES
TRANSFER CONFIDENTIAL USER DOCUMENT DATA WITH AUTHENTICATED PASSWORD FROM HDD TO MEMORY CARD (AFTER COMPLETION OF TRANSFER, DELETE SAME TEXT DATA IN HDD)
S507
PREVENTIVE PROCESS AGAINST FAILURE OF PULLING OUT MEMORY CARD
S508
NOTIFY USER OF ERROR
S511
IS PREVENTIVE PROCESS AGAINST FAILURE OF PULLING OUT MEMORY CARD NORMALY ENDED?
S509
NO
YES
ERASE TEXT DATA COPIED TO MEMORY CARD FROM HDD
S510
NORMAL END
ABNORMAL END
ABNORMAL END

FIG. 21

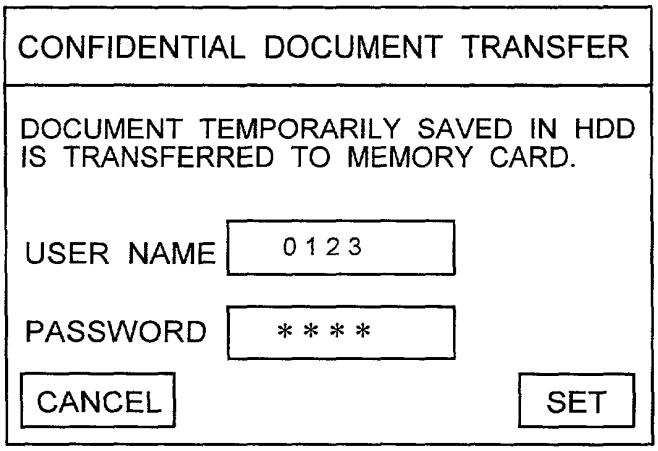

FIG. 22

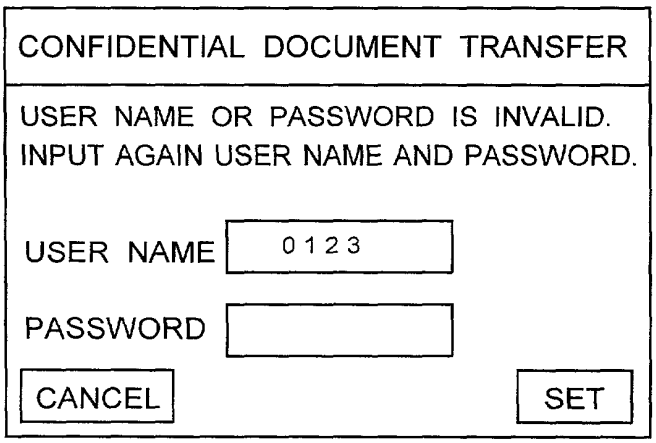

FIG. 23

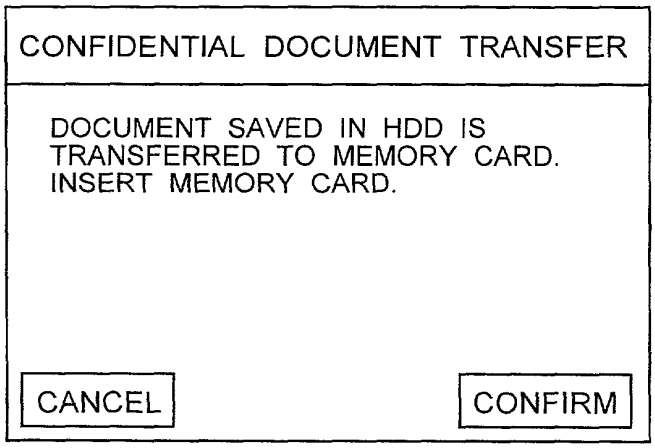

FIG. 24

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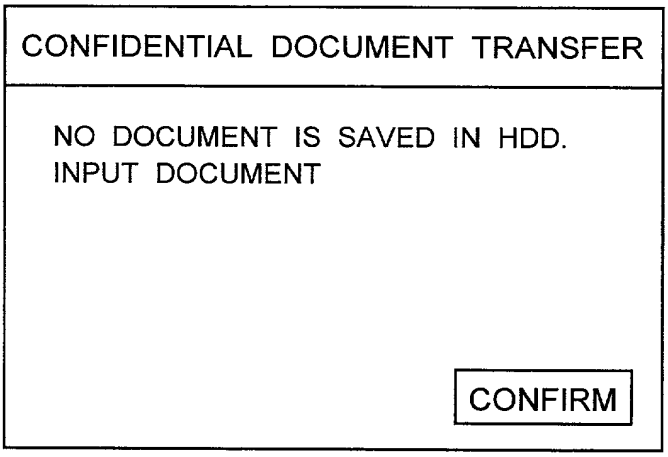

FIG. 25

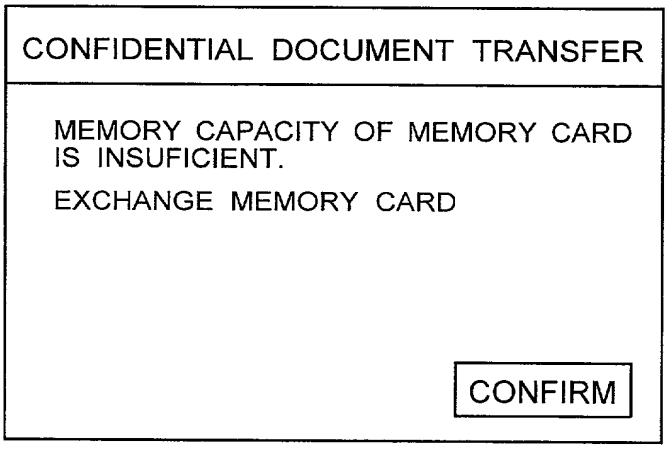

FIG. 26

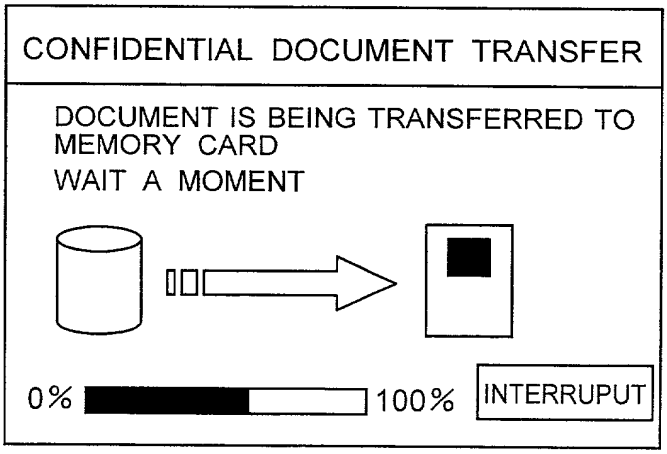

FIG. 27

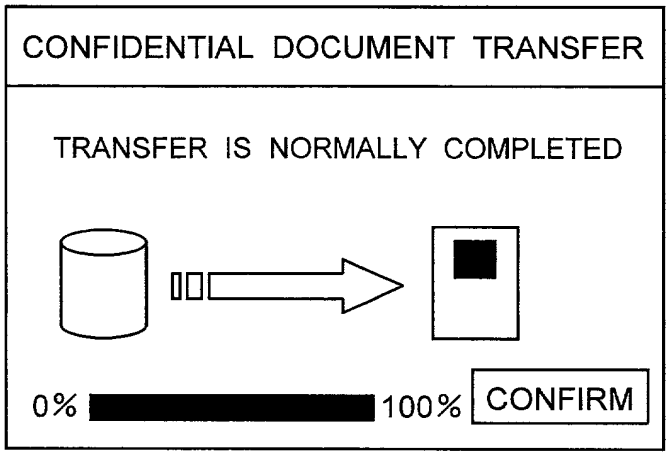

FIG. 28

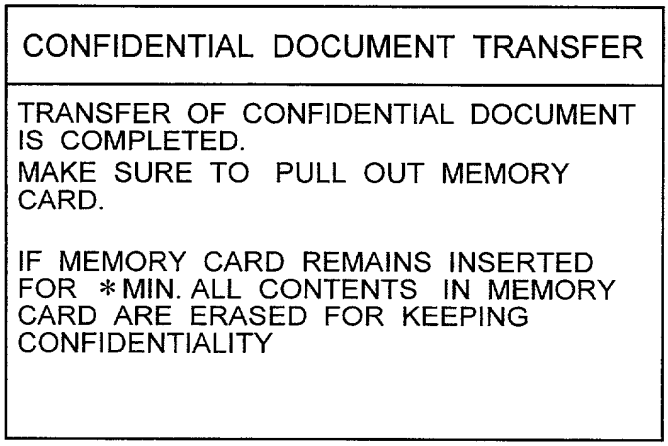

FIG. 29

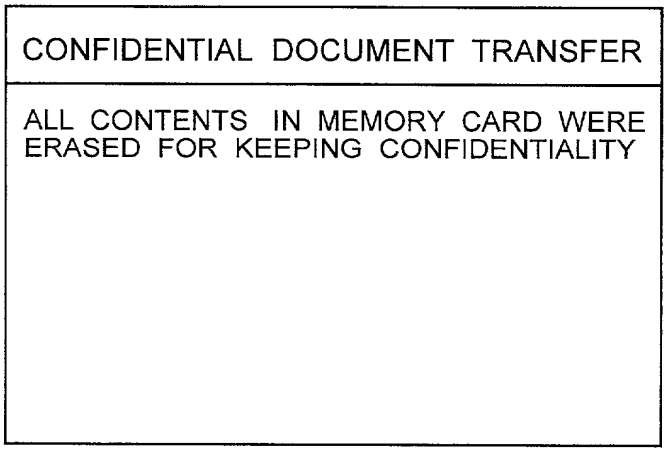

FIG. 30

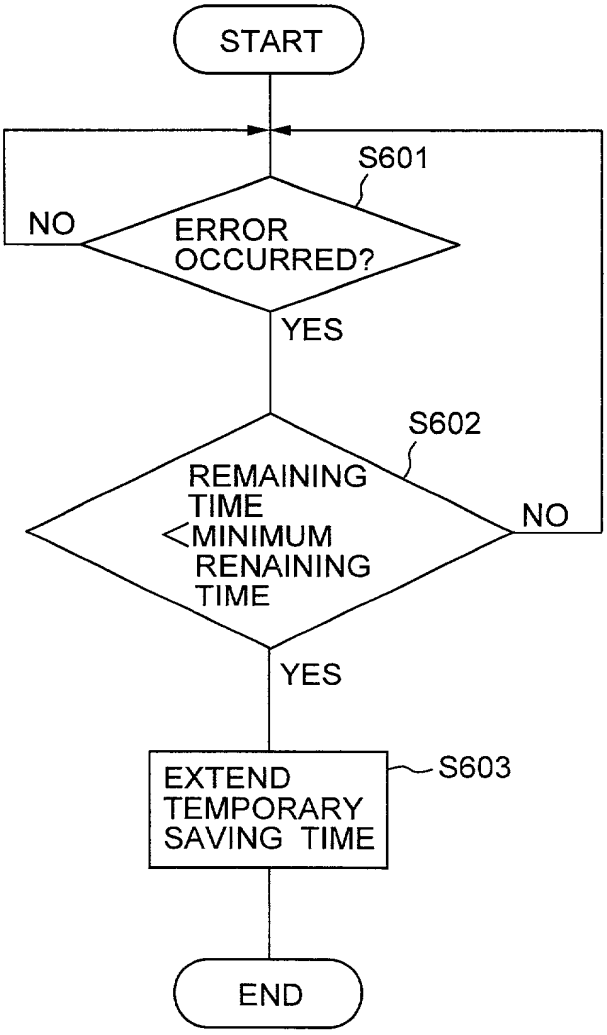
START
S601
NO
ERROR OCCURRED?
YES
S602
REMAINING TIME <MINIMUM RENAINING TIME
NO
YES
EXTEND TEMPORARY SAVING TIME
S603
END

FIG. 31